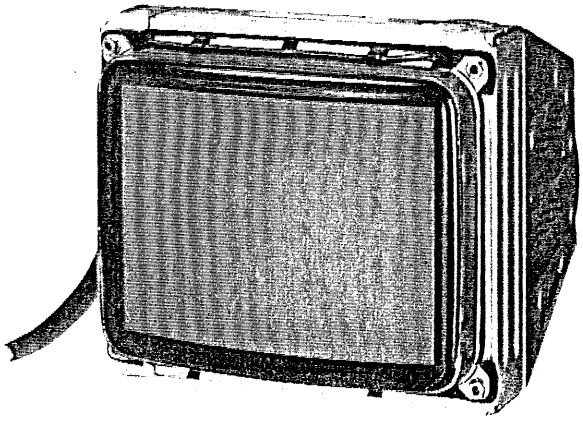
ADM-10B

SERVICE MANUAL

US Model



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TRINITRON® COLOR MONITOR

SONY®

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer :

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.

2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.

3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.

4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.

5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.

6. Check the line cord for cracks and abrasion. Recommend the replacement of any such line cord to the customer.

7. Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.

SECTION 1
SET-UP ADJUSTMENTS

- The following adjustments should be mode when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

Controls and switch should be set as follows unless otherwise noted :

PICTURE control	: 75 %
BRIGHT control	: 50 %
COLOR control	: 75 %
HUE control	: 50 %

Perform the adjustments in order as follows :

1-1. Beam Landing
1-2. Convergence
1-3. Focus
1-4. White Balance

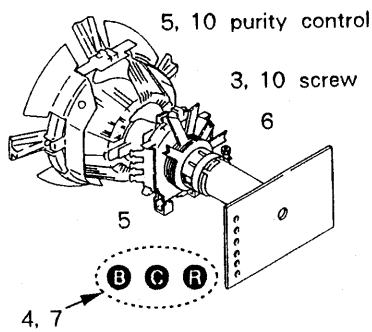
Note : Test Equipment Required.
1. Color-bar/Pattern Generator
2. Degausser
3. Oscilloscope

1-1. BEAM LANDING

Preparation :

- Feed in the white pattern.
- Before starting, degauss the entire screen.

1. Turn on set power supply and receive an all-white signal.
2. Evenly degauss the entire screen.
3. Loosen the deflection yoke mounting screw, and set the purity control to the center as shown in Fig. 1-1.
4. Set BKG VR Ⓡ to maximum and set Ⓑ and Ⓖ to minimum.
5. Move the deflection yoke back, and adjust the purity control so that Ⓡ is in the center and Ⓖ and Ⓑ are at the sides, evenly.(Fig. 1-2.)
6. Move the deflection yoke forward so that the entire screen is red.
   * If the deflection yoke is pushed all the way to the PICTURE TUBE then moved slightly forward, landing adjustment is easier.
7. Substitute Ⓖ, then Ⓑ for Ⓡ in step 4 and check landing.
8. Rotate Ⓡ, Ⓖ and Ⓑ once each and check landing.
9. When landing is not right, adjust the purity control and use magnets as shown in Fig. 1-3. then repeat step 7 and 8.
10. When a magnet is used, be sure to perform step 2, and tighten deflection yoke mounting screw loosely.



Note ; The numbers (3-10) show above steps.

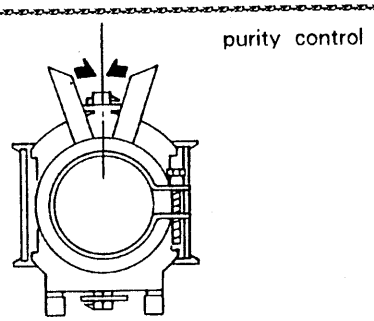


Fig. 1-1.

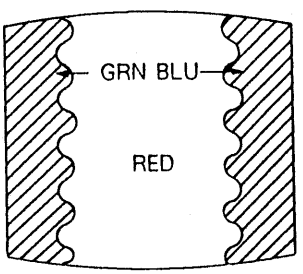


Fig. 1-2.

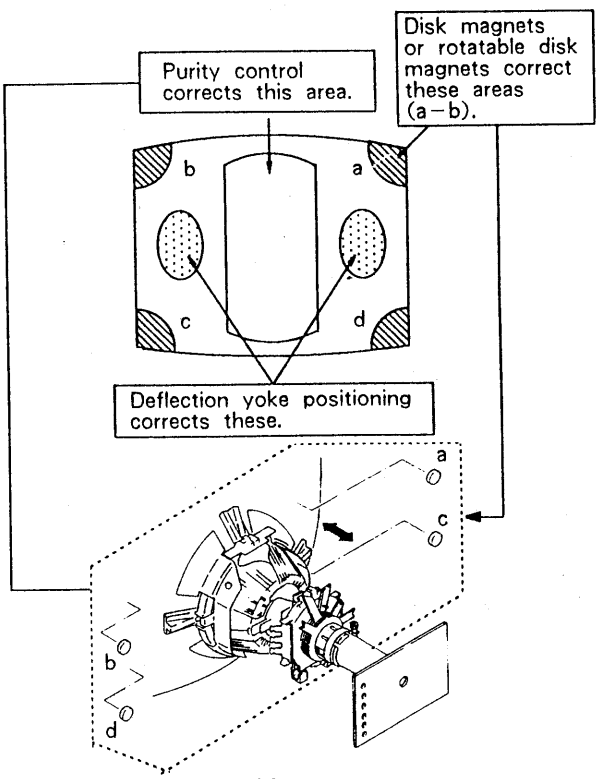


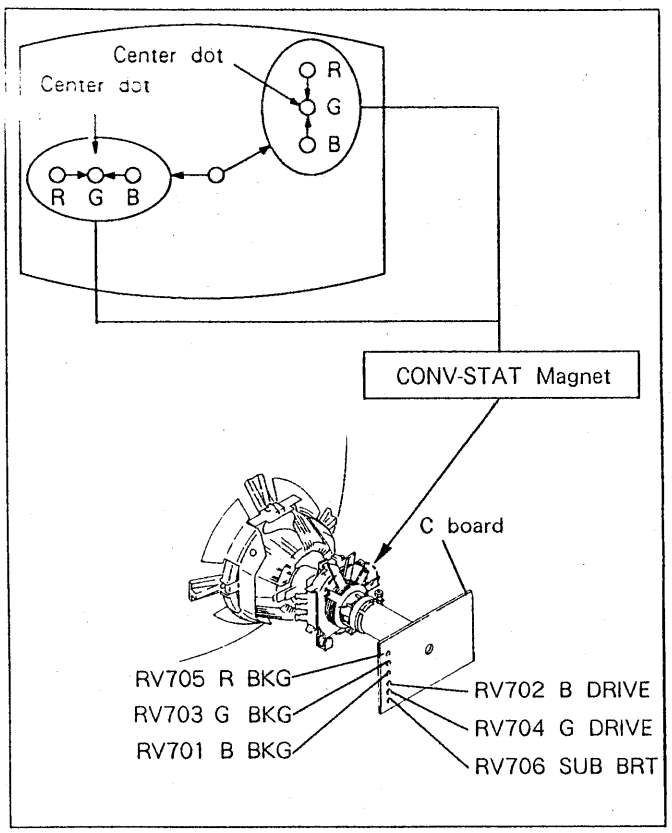
Fig. 1-3.

1-2. CONVERGENCE

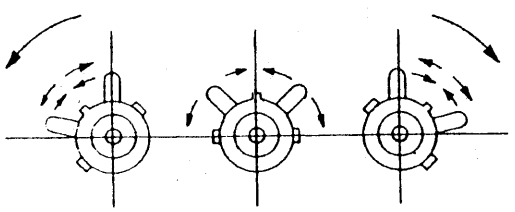
Preparation :

- Before starting, perform FOCUS, H. SIZE, V SIZE and V. LIN adjustments.
- Turn BRIGHTNESS control to fully counterclockwise and PICTURE control to click position.
- Feed in the dot pattern.

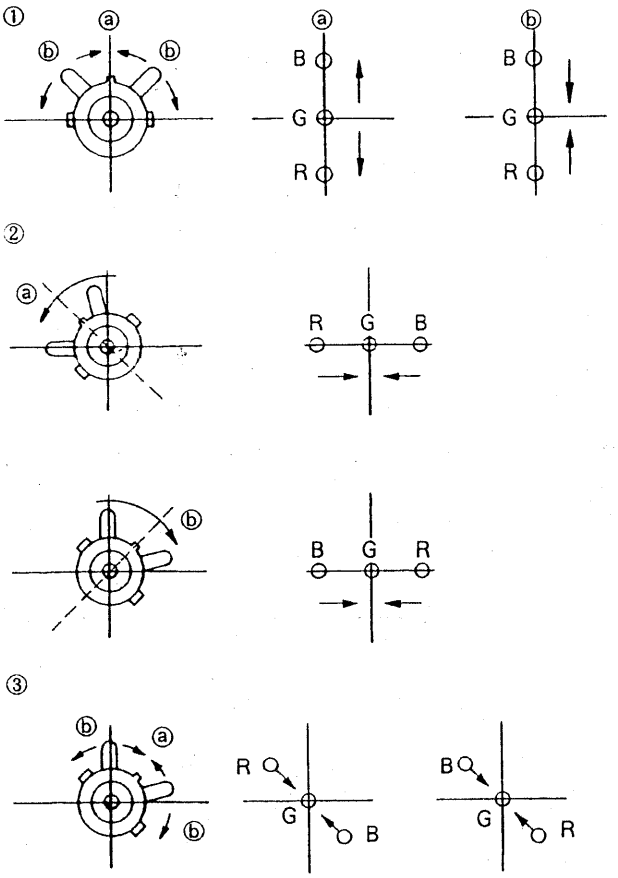
1. Horizontal and Vertical Static Convergence



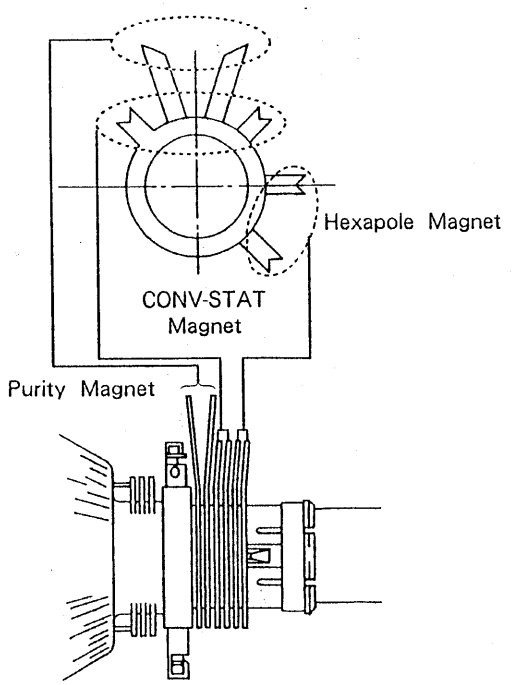
1. Adjust CONV-STAT magnet to coincide red, green and blue dots on the center of screen.
- Tilt the CONV-STAT magnet and adjust static convergence to open or close the CONV-STAT magnet.



2. When the CONV-STAT magnet is moved in the direction of arrow ⓐ and ⓑ, Red, Green and Blue dots move as shown below.



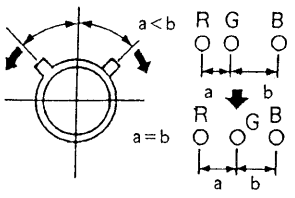
※If the red and green dots do not coincide with blue dot, adjustment with BMC (6-poles) magnat.



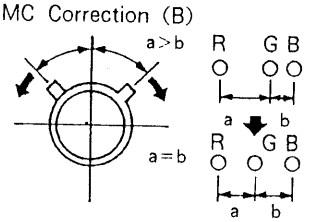
• HMC and VMC correction for BMC (6-poles) magnet.

1. HMC (Horizontal Misconvergence) correction and motion of the Electron Beam with the BMC (6-poles) magnet.

HMC Correction (A)

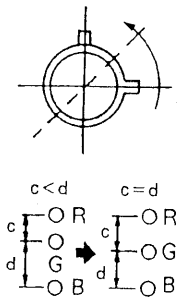


HMC Correction (B)

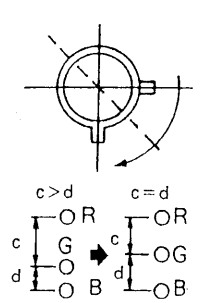


2. VMC (Vertical Misconvergence) correction and motion of the Electron Beam with the BMC (6-poles) magnet.

VMC Correction (A)



VMC Correction (B)

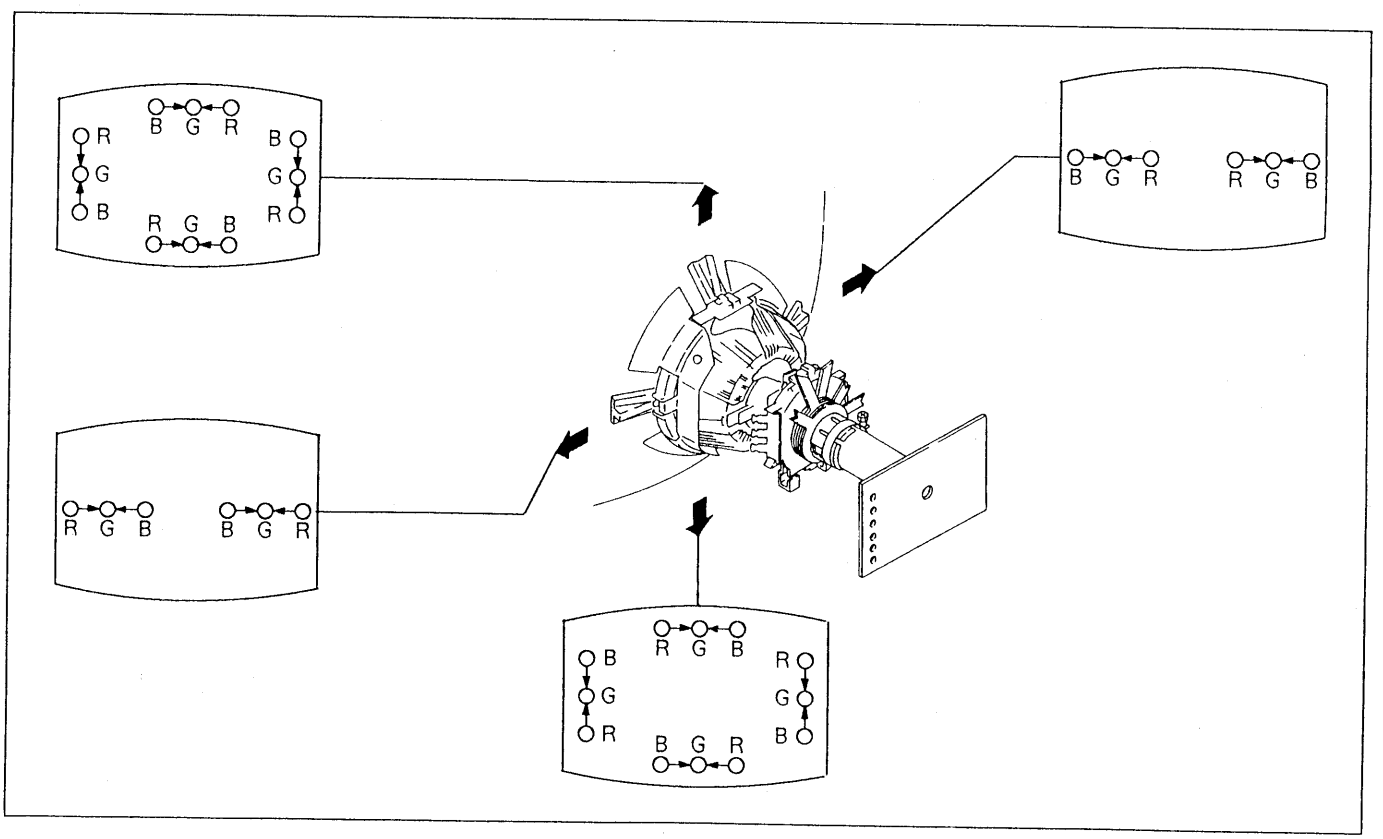


(2) Dynamic Convergence Adjustment

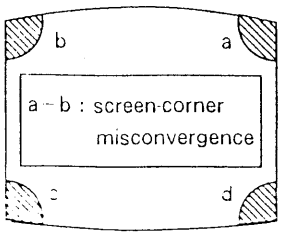
Preparation :

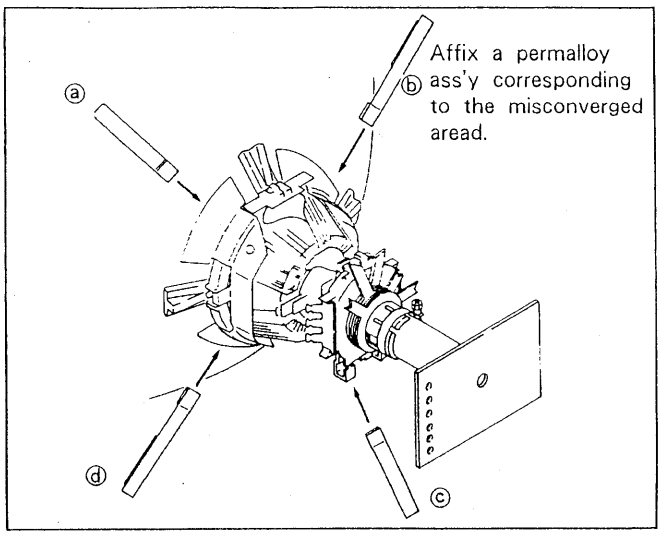
• Before starting, perform Horizontal and Vertical Static Convergence Adjustment.

1. Remove deflection yoke spacers.
2. Move the deflection yoke for best convergence as shown.
3. Install the deflection yoke spacers.



3. Screen-corner Convergence

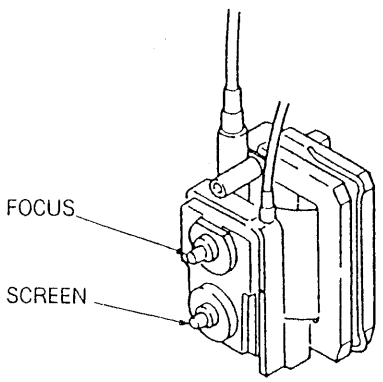




1-3. FOCUS

(1) Input monoscope signal.
PICTURE control : 75%
BRIGHT control : 50%
COLOR control : 75%
HUE control : 50%

(2) Adjust FOCUS control for a best picture at the center and both sides of the screen.



1-4. WHITE BALANCE

- Input dot signal from pattern generator.
- PICTURE control : 75%
  BRIGHT control : 50%
  COLOR control : 75%
  HUE control : 50%

[SCREEN (G2)]

1. Adjust BKG VRs (RV701, RV703, and RV705) so that voltages on the red, green and blue cathodes are 150 ±1VDC with an oscilloscope as shown in Fig. 1.

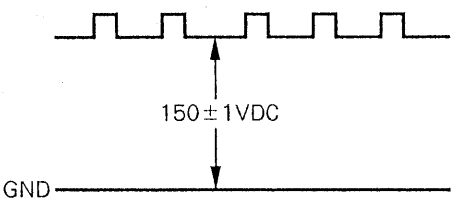


Fig. 1

2. Observe the screen and adjust Screen control to obtain the faintly visible background of dot signal.
   Note the color that first becomes visible by turning SCREEN control.
   Do not turn a BKG control for this color.

[WHITE BALANCE]

1. Input entirely white signal from pattern generator.
2. Set the PICTURE control to obtain the faintly visible raster on the screen.
3. Observe the screen and adjust the other two BKG VRs for best white balance.
4. Set the PICTURE control at maximum.
5. Observe the screen and adjust the DRIVE VRs (RV702, RV704) for best white balance.
6. Repeat step 2 through 5 several times.

SECTION 2
SAFETY RELATED ADJUSTMENTS

⊠R822 CONFIRMATION METHOD (HOLD-DOWN CONFIRMATION) AND READJUSTMENTS

When replacing the following components (marked with ◪ on the schematic diagram), always perform the adjustment as follows :

C507, C801, C810, D504, D806, IC301, R509, R806, R807, R808, R822, T802 (FBT)

(1) Preparation before confirmation

1. Turn the POWER ON, and receiver entirely color-bar signals and set the PICTURE and BRIGHT controls to normal.
2. Confirm that the voltage of TP86 is more than $21.2^{+1.5}_{-1.0}$VDC when the set is operating normally with 24.0 ± 0.5VDC supply.

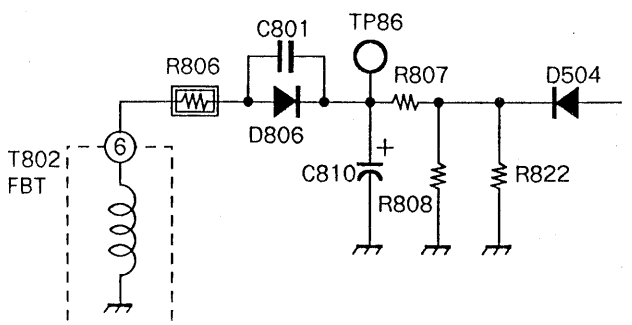
(2) Hold-down operation confirmation

1. Turn the POWER ON, and receive entirely white signals and set the PICTURE and BRIGHT controls to normal.
2. Apply DC voltage of over 23.5VDC gradually to TP86 via 1T40 from the DC stavilized power source. Confirm that the minimum voltage is less than 24.8VDC whereby the raster disappears during of hold-down circuit.

NOTE : When the hold-down circuit starts operating, switch OFF the POWER of the set immediately.

(3) Hold-down readjustment

When step (2) is not satisfied, readjustment should be performed by altering the resistance value of R822 (a component marked with ⊠).



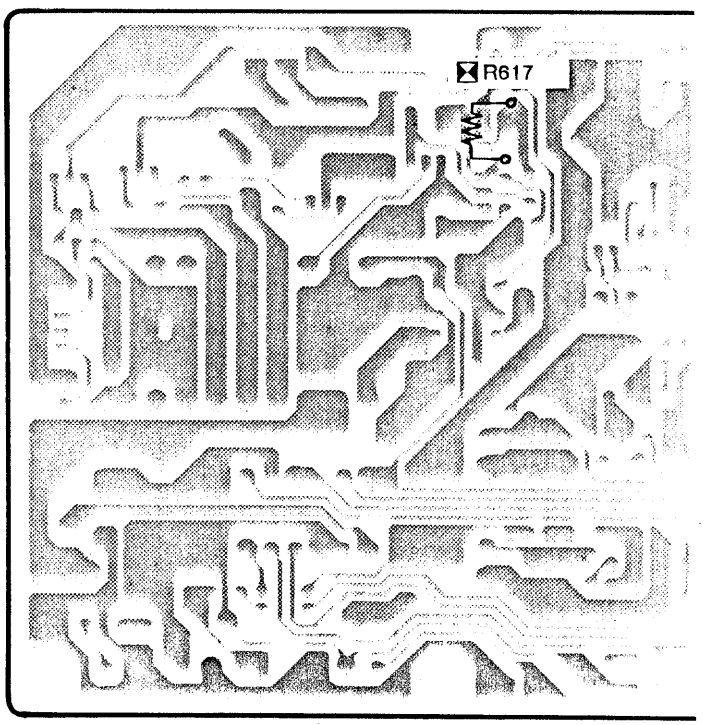
+B MAX VOLTAGE CONFIRMATION (⊠ R617)

When replacing the following components (marked with ◪ on the schematic diagram), perform the adjustment as follows :

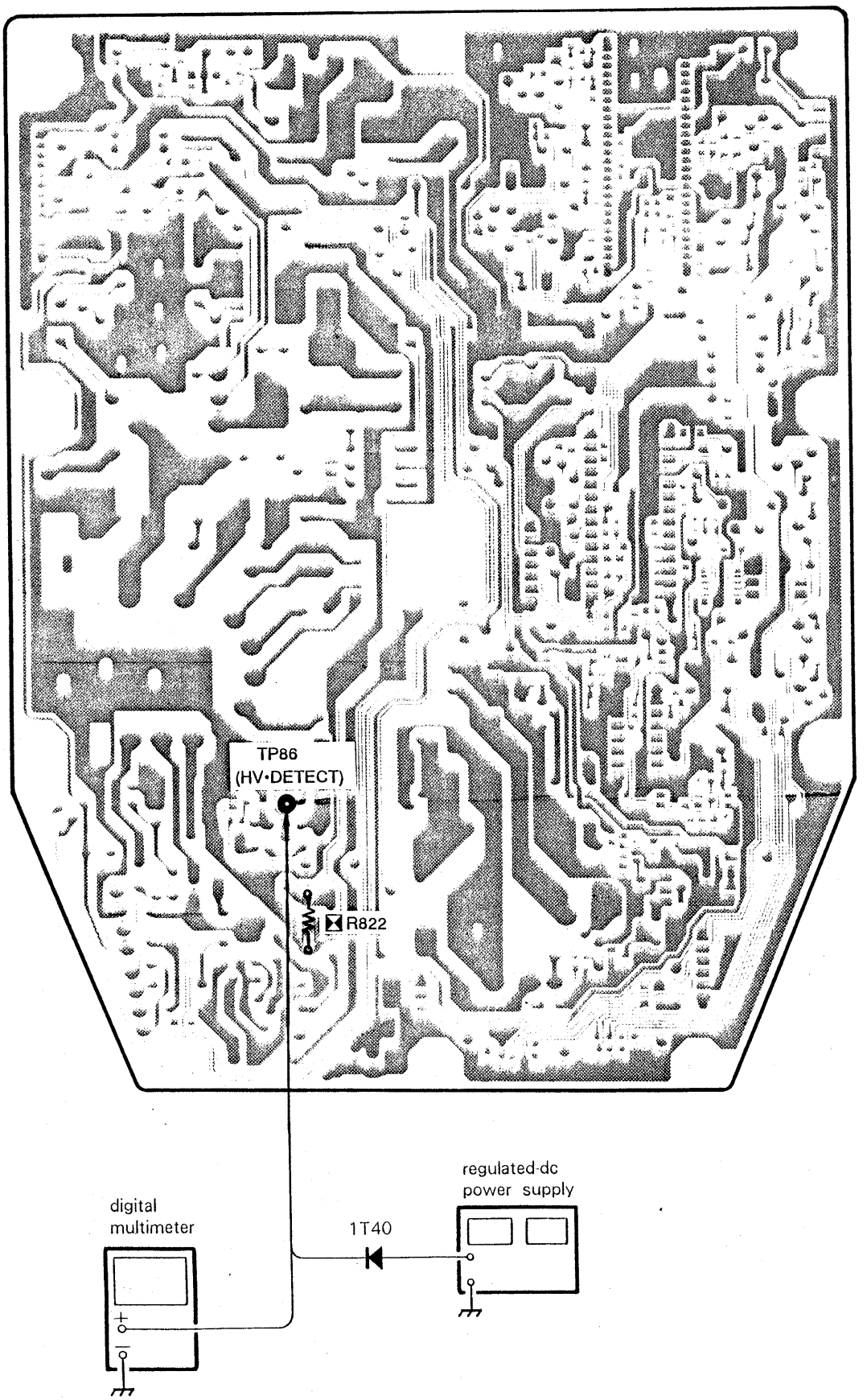
C634, C635, C636, D628, D672, IC001, IC604, IC605, Q608, Q611, R617, R629, R630, R631, R680, T604, T606

(1) Supply 26.4^{+}_{-6}V DC to with regulated DC power supply.
(2) Receive color-bar signals.
(3) Set the PICTURE and BRIGHT controls to minimum.
(4) Confirm the voltage of +B line is less than 118.0VDC.
(5) When step (4) is not satisfied, readjustment should be performed by altering the resistance value of R617 (a component marked with ⊠).

– G BOARD – (Conductor side)



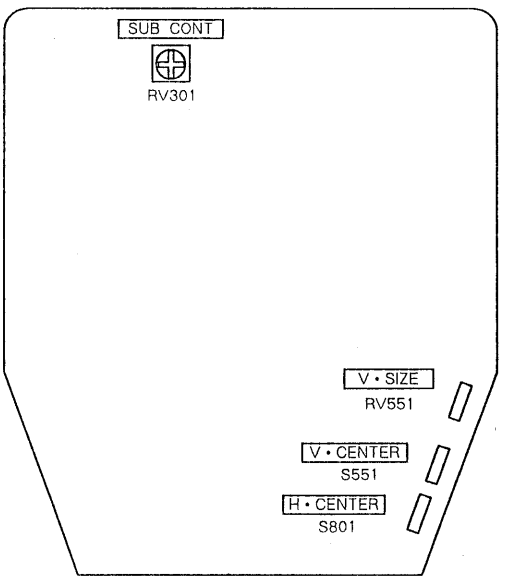
– **A BOARD** – (Coundutor side)



SECTION 3
CIRCUIT ADJUSTMENTS

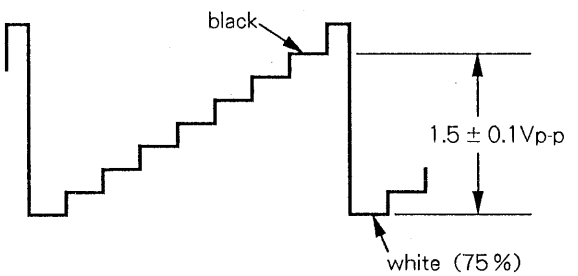
3-1. A BOARD ADJUSTMENTS

A BOARD (Component side)



SUB CONTRAST ADJUSTMENT (RV301)

1. Receive a color-bar signal.
2. PICTURE maximum
   BRIGHT 50 %
3. Observe the Q302 emitter waveform on the oscilloscope.
4. Adjust RV301 until the black and white signal level becomes 1.5 ± 0.1Vp-p.



V. SIZE ADJUSTMENT (RV551)

1. Receve a cross-hatch signal.
2. Set the PICTURE and BRIGHT control to normal position.
3. Adjust RV551 for best picture.

V. CENTER ADJUSTMENT (S551)

1. Receive a cross-hatch signal.
2. Set the PICTURE and BRIGHT control to normal position.
3. Adjust S551 for best position.

H. CENTER ADJUSTMENT (S801)

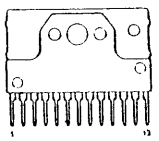
1. Receive a cross-hath signal.
2. Set the PICTURE and BRIGHT control to normal position.
3. Adjust S801 for best position.

SECTION 4
DIAGRAMS

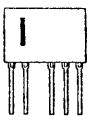
4-1. SEMICONDUCTOR LEAD LAYOUTS

M5237L

LA7837



DM-46



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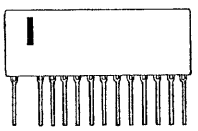

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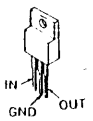

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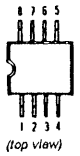

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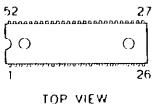

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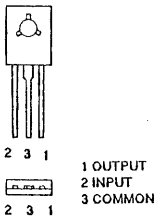
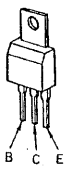


2SA1016KFG

2SC1810



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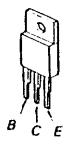

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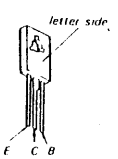

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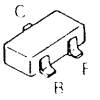

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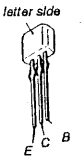

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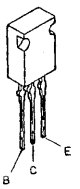

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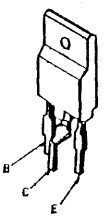

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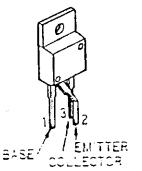
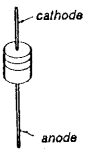


1SS119
DIN20R
RD16ES-B3
RD12ES-B2
RD5.6ES-B1
RD5.6ES-B2



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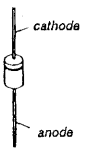
RU-3AM



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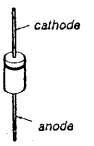
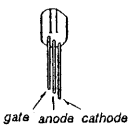
DINL20
EL-1Z



CR02AM-8



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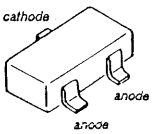

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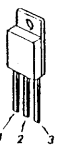
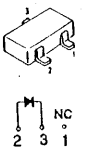
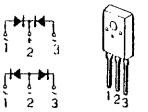


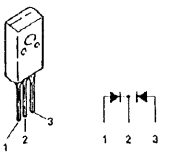
RD5.6M-B2



D8LC20UR



D10SC4M



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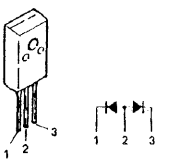


Note :

- All capacitors are in μF unless otherwise noted. pF : μμF 50WV or less are not indicated except for electrolytics.
- All resistors are in ohms.
- △ : internal component.
- : nonflammable resistor.
- : fusible resistor.
- : panel designation.
- Indication of resistance, which dose not have one for rating electrical power, is as follows.

Pitch : 5mm Rating electrical power : ¼W

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- The components identified by ▮ in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- When replacing components identified by ◪, make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by ▮ and repeat the adjustment until the specified value is achieved.(Refer to R617 and R822 adjust on Page 7, 8.)
- When replacing the part in below table be sure to perform the related adjustment.

Part replaced (◪)	Adjustment (▮)
C634, C635, C636, D628, D672, IC001, IC604, IC605, Q608, Q611, R617, R629, R630, R631, R680, T604, T606	R617 (B+ MAX)
C507, C801, C810, D504, D806, IC301, R509, R806, R807, R808, R822, T802 (FBT)	R822 (HOLD-DOWN)

- Voltages are dc with respect to ground unless otherwise
- All voltages are in V.
- Readings are taken with a color-bar signal input.
- : adjustment for repair.
- Readings are taken with a NTSC 3.58 color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- : B+ bus.
- : signal path.
- Readings are taken with a color-bar signal input.
- Power voltage is dc 24V and fed with dc power supply from connection cord (DC IN and P ON/OFF terminals).
- Circled numbers are waveforms reference.

Reference information

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE WIREWOUND
	: RB	NONFLAMMABLE CEMENT
COIL	: LF-SL	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

Note: The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

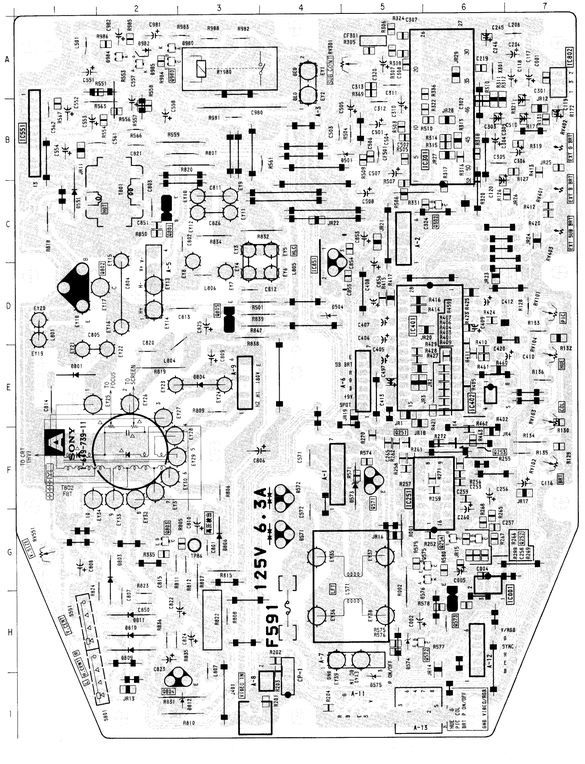
4-2. PRINTED WIRING BOARDS

● SEMICONDUCTOR LOCATION

— A BOARD —

Ref. No.	Location
D501	B - 5
D504	D - 4
D551	C - 1
D571	G - 4
D572	F - 4
D573	F - 5
D574	H - 5
D575	I - 5
D576	G - 6
D801	E - 1
D803	G - 2
D804	E - 3
D806	G - 3
D809	H - 2
D810	H - 2
D811	H - 2
D812	I - 3
D980	A - 2
D982	A - 2
D984	A - 2
D985	A - 2
IC001	G - 6
IC301	B - 6
IC402	E - 6
IC551	B - 1
IC802	A - 7
IC851	D - 4
Q252	G - 6
Q254	G - 6
Q302	C - 6
Q571	F - 5
Q572	H - 5
Q573	H - 6
Q575	G - 6
Q801	C - 2
Q802	D - 1
Q803	D - 2
Q804	I - 2
Q805	D - 3
Q980	A - 2

— A BOARD —

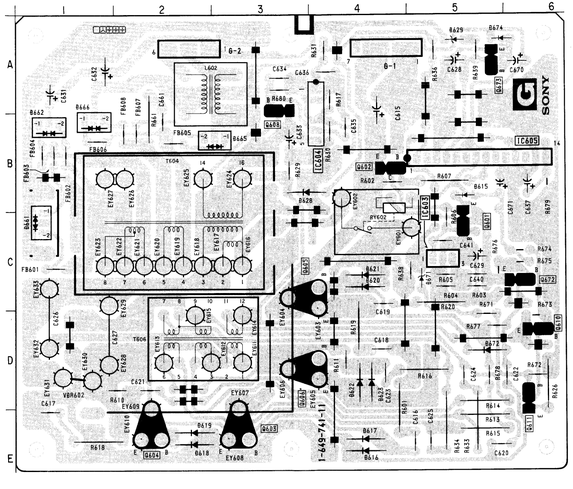


● SEMICONDUCTOR LOCATION

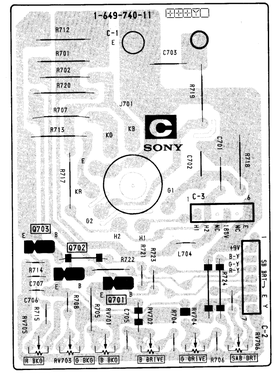
— G BOARD —

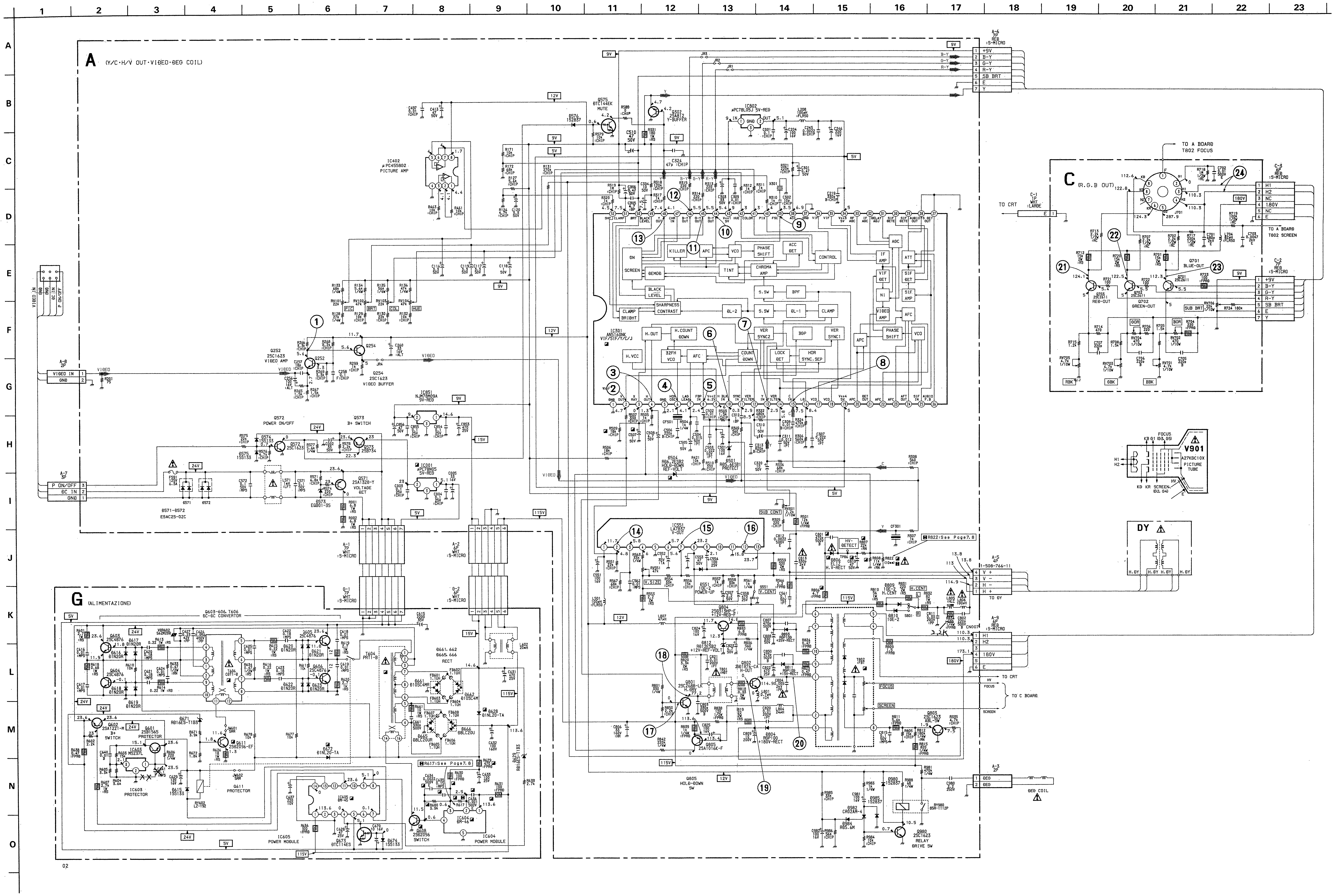
Ref. No.	Location	Ref. No.	Location
D615	B - 5	IC603	C - 5
D616	E - 4	IC604	B - 4
D617	E - 4	IC605	B - 6
D618	E - 2		
D619	E - 2		
		Q601	C - 5
D620	C - 4	Q602	B - 4
D621	C - 4	Q603	E - 3
D622	D - 4	Q604	E - 2
D623	D - 4	Q605	C - 3
D628	B - 3		
		Q606	D - 3
D629	A - 5	Q608	B - 3
D661	C - 1	Q610	D - 6
D662	B - 1	Q611	E - 6
D665	B - 3	Q672	C - 6
D666	B - 1		
		Q673	A - 5
D671	C - 5		
D672	D - 5		
D674	A - 5		

— G BOARD —

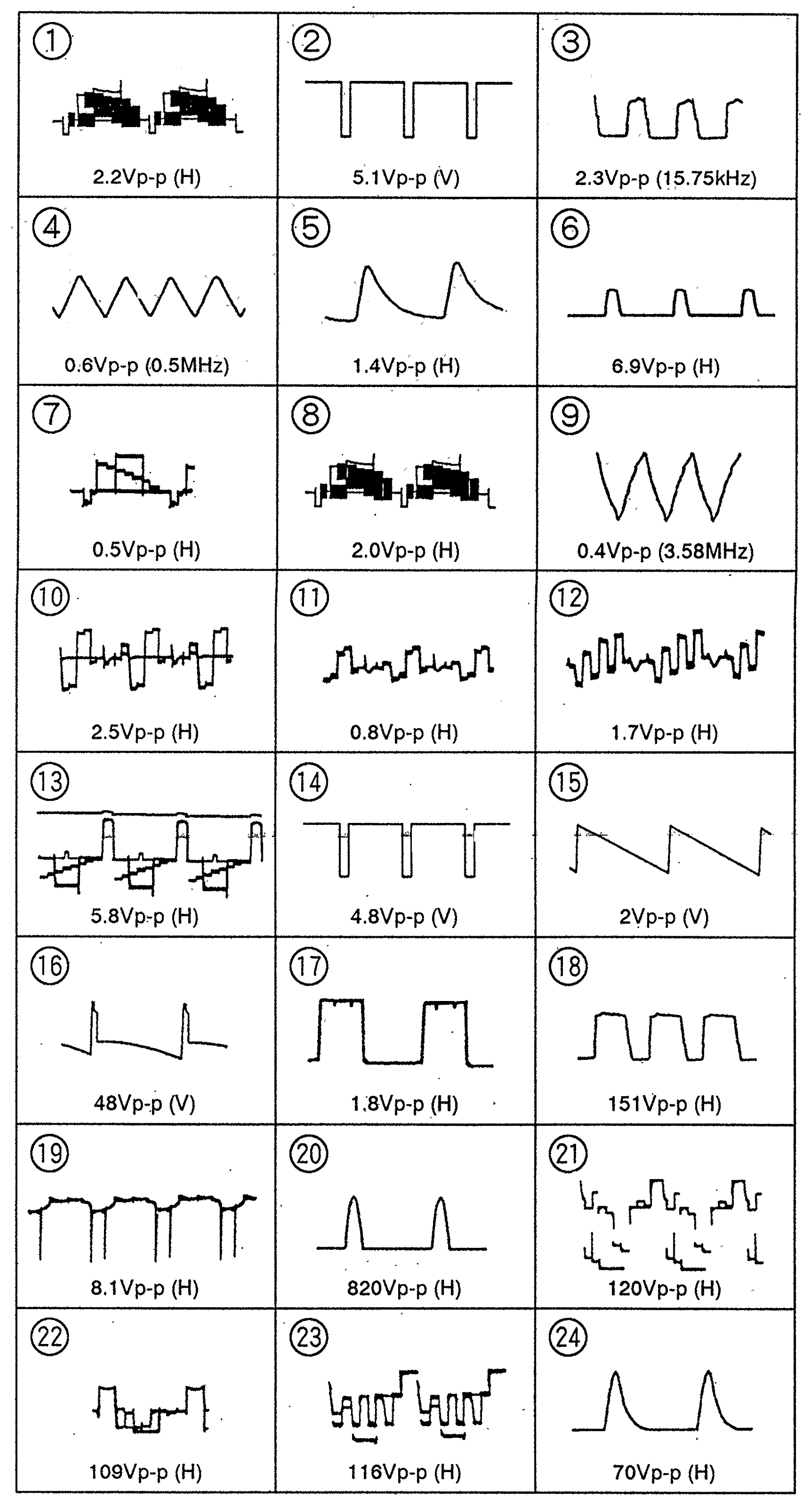


— C BOARD —




A (Y/C·H/V OUT·VIDEO·DEG COIL)
C (R.G.B OUT)
G (ALIMENTAZIONE)
IC301 AN5160NK VIF/SIF/Y/C/J
IC551 LA7837 V-OUT
IC402 μPC4558G2 PICTURE AMP
IC802 μPC78L05J 5V-REG
IC851 NJM78M09A 9V-REG
IC001 μPC78N05 5V-REG
Q603-606, T606 DC-DC CONVERTOR
IC605 POWER MODULE
IC604 POWER MODULE
IC603 PROTECTOR
Q611 PROTECTOR
Q572 POWER ON/OFF
Q573 B+ SWITCH
Q571 2SA1328-Y VOLTAGE DET
Q252 2SC1623 VIDEO AMP
Q254 2SC1623 VIDEO BUFFER
Q575 DTC144EK MUTE
Q302 2SA812 Y-BUFFER
Q801 2SC2688-LK H.DRV
Q802 2SD1876-CA H-OUT
Q804 2SD313HP-E +12V-REG-F
Q805 HOLD-DOWN SW
Q803 2SC1623 ABL-SW
Q980 2SC1623 RELAY DRIVE SW
Q701 BLUE-OUT
Q702 GREEN-OUT
Q703 RED-OUT
V901 A27KGC10X PICTURE TUBE
DY
DEG COIL
TO CRT
TO C BOARD
TO DY
TO A BOARD T802 FOCUS
TO A BOARD T802 SCREEN
R617:See Page7,8
R822:See Page7,8
02

• A BOARD WAVEFORMS



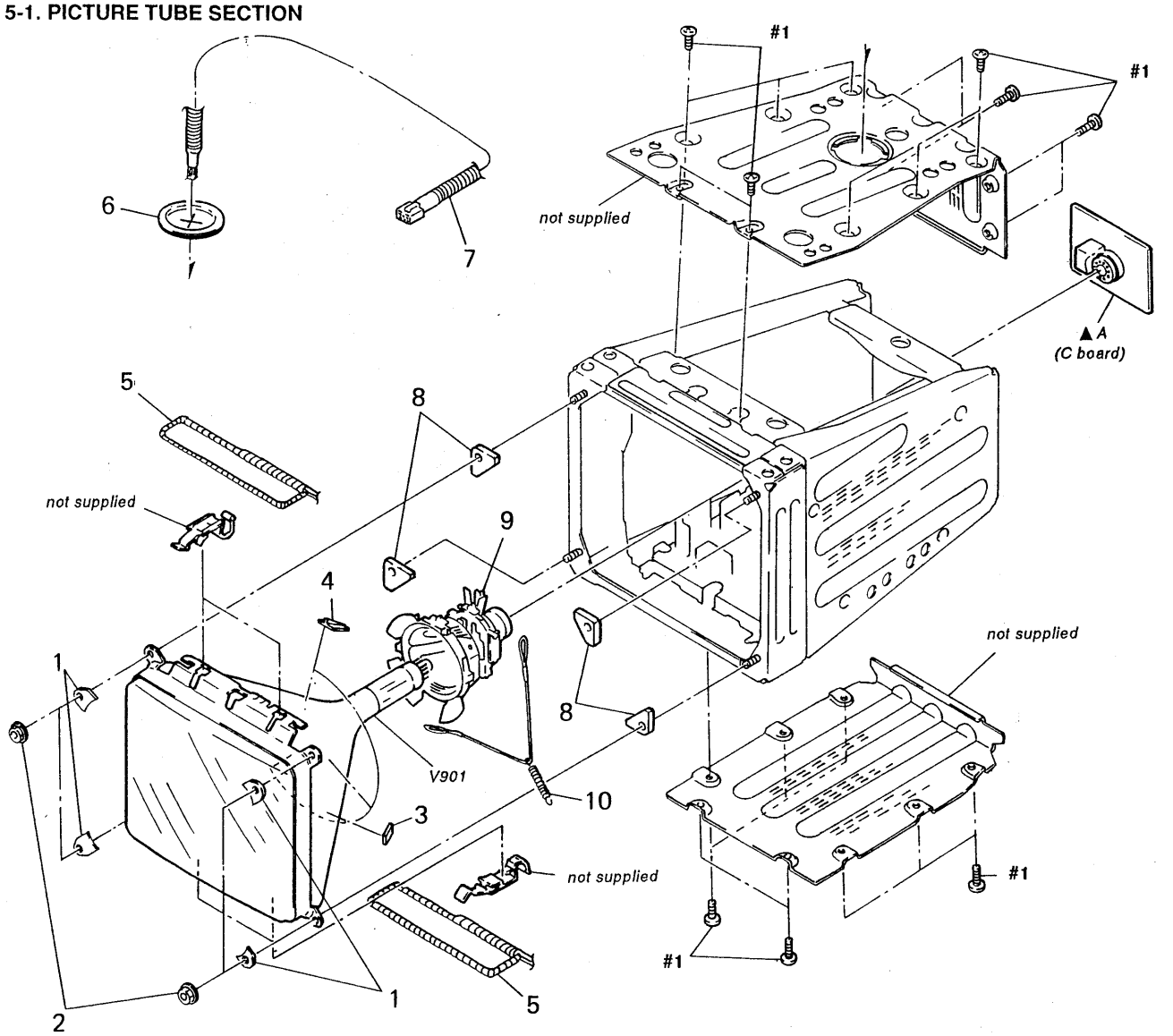
SECTION 5
EXPLODED VIEWS

NOTE :

- -XX, -X mean standardized parts, so they may have some difference from the original one.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Color indication of Appearance Parts Example :
  KNOB, BALANCE (WHITE)....(RED)
  ↑ ↑
  Parts color Cabinet's color
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark)list is given in the last of this parts list.

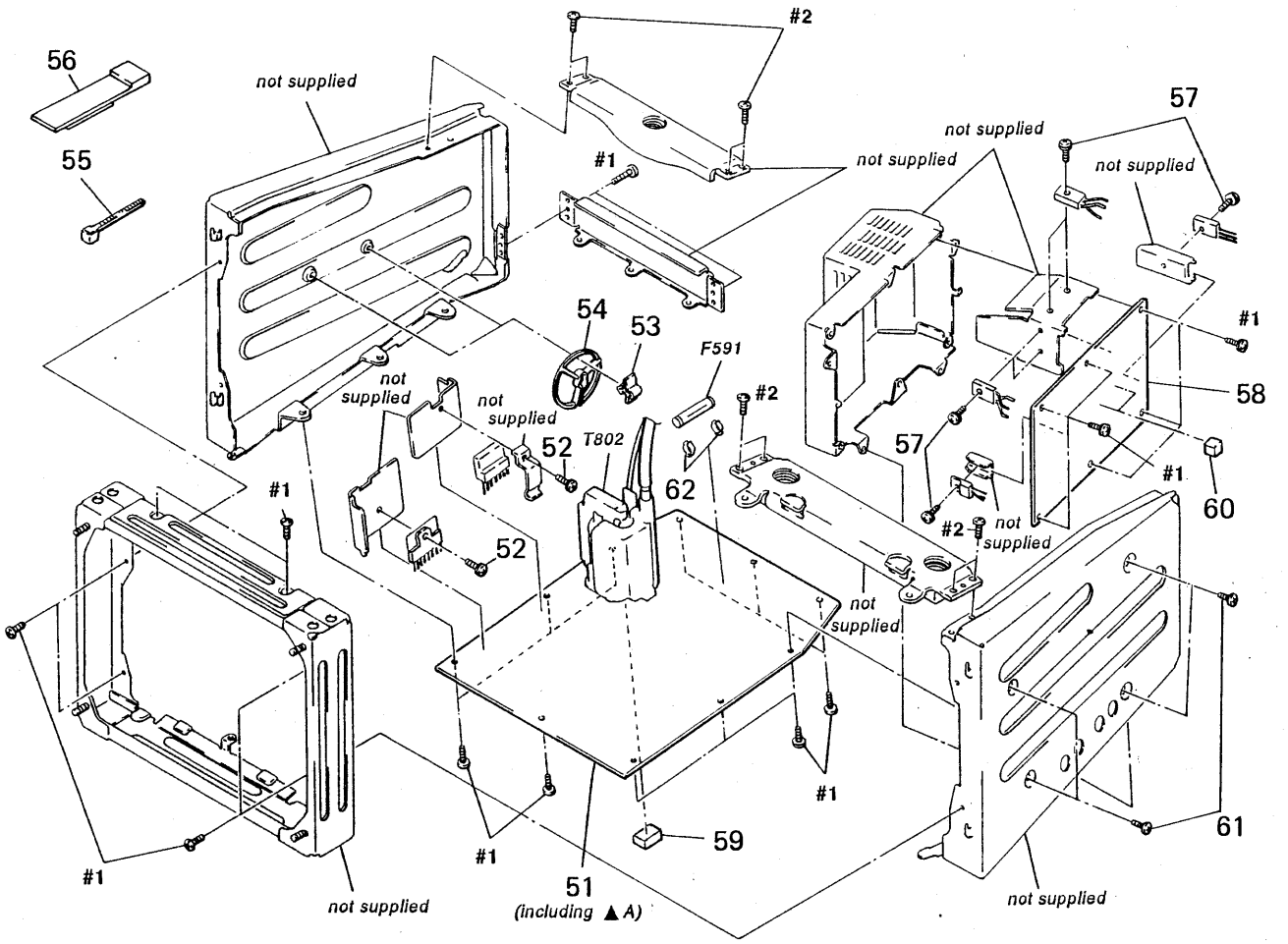
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

5-1. PICTURE TUBE SECTION



Ref. No.	Part No.	Description	Remark
* 1	3-906-162-01	SPACER	
2	3-577-224-00	NUT (M6), FLANGE	
3	1-452-512-11	MAGNET	
4	3-704-495-01	SPACER, DY	
⚠5	1-426-462-11	COIL, DEMAGNETIZATION	
6	3-906-164-01	BUSHING	
7	1-751-622-11	CORD, CONNECTION	
8	3-906-163-01	SPACER (RUBBER)	
⚠9	1-451-354-11	DEFLECTION YOKE (Y11SLA)	
10	4-303-774-XX	SPRING	
⚠V901	8-735-821-01	CRT SD-217 (A27KGC10X)	

5-2. CHASSIS SECTION



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
* 51	A-3222-685-A	A BOARD, COMPLETE	
52	4-382-854-01	SCREW (M3X8), P, SW (+)	
53	3-906-552-01	CLIP, CABLE	
* 54	4-034-856-01	HOLDER, HV CABLE	
55	3-701-748-00	CLAMP	
56	X-4308-815-0	PERMALLOY ASSY, CONVERGENCE	
57	4-382-854-11	SCREW (M3X10), P, SW (+)	

Ref. No.	Part No.	Description	Remark
* 58	A-3222-648-A	G BOARD, COMPLETE	
59	9-911-843-XX	SPACER, PC BOARD	
60	9-911-841-XX	CUSHION	
61	3-344-501-11	SCREW (+PTT 3X8), GROUND POINT	
62	1-533-223-11	CLIP, FUSE	
⚠F591	1-532-748-11	FUSE, GLASS TUBE 6.3A 125V	
⚠T802	1-439-476-11	TRANSFORMER ASSY, FLYBACK	

SECTION 6
ELECTRICAL PARTS LIST

A

NOTE :

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms
  METAL : Metal-film resistor
  METAL OXIDE : Metal oxide-film resistor
  F : nonflammable
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : μ , for example :
  uA.... : μ A.... , uPA.... : μ PA....
  uPB.... : μ PB.... , uPC.... : μ PC....
  uPD.... : μ PD....
- CAPACITORS
  uF : μ F
- COILS
  uH : μ H

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board.

- The components identified by ⋈ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

Ref. No.	Part No.	Description			Remark
*	A-3222-685-A	A BOARD, COMPLETE (including C board)			
		**********			
*	1-506-371-00	PIN, CONNECTOR 2P (R822)			
	1-533-223-11	CLIP, FUSE			
	4-382-854-01	SCREW (M3X8), P, SW (+)			
		< CONNECTOR >			
A-1	1-564-510-11	PLUG, CONNECTOR 7P			
* A-2	1-564-509-11	PLUG, CONNECTOR 6P			
A-3	1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P			
A-5	1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P			
* A-6	1-564-510-11	PLUG, CONNECTOR 7P			
A-7	1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P			
A-8	1-564-505-11	PLUG, CONNECTOR 2P			
* A-9	1-564-509-11	PLUG, CONNECTOR 6P			
		< CAPACITOR >			
C001	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C002	1-124-512-11	ELECT	33uF	20%	50V
C003	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C004	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C005	1-124-265-11	ELECT	33uF	20%	16V
C116	1-126-162-11	ELECT	3. 3uF	20%	50V
C117	1-123-382-00	ELECT	3. 3uF	20%	100V
C118	1-124-791-11	ELECT	1uF	20%	100V
C119	1-123-382-00	ELECT	3. 3uF	20%	100V
C120	1-123-382-00	ELECT	3. 3uF	20%	100V
C204	1-126-101-11	ELECT	100uF	20%	16V
C219	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C245	1-164-161-11	CERAMIC CHIP	0. 0022uF	10%	100V
C246	1-104-778-91	ELECT	220uF	20%	16V
C256	1-126-101-11	ELECT	100uF	20%	16V
C257	1-163-099-00	CERAMIC CHIP	18PF	5%	50V
C258	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C260	1-124-265-11	ELECT	33uF	20%	16V
C301	1-124-042-51	ELECT	0. 47uF	20%	50V
C302	1-163-093-00	CERAMIC CHIP	10PF	5%	50V
C303	1-104-792-91	ELECT	33uF	20%	50V
C304	1-123-875-11	ELECT	10uF	20%	50V
C305	1-126-151-11	ELECT, NONPOLAR	4. 7uF	20%	16V
C306	1-124-042-51	ELECT	0. 47uF	20%	50V
C307	1-130-487-00	MYLAR	0. 022uF	5%	50V
C308	1-164-232-11	CERAMIC CHIP	0. 01uF		50V
C309	1-163-031-11	CERAMIC CHIP	0. 01uF		50V
C310	1-124-791-11	ELECT	1uF	20%	100V
C311	1-130-484-00	MYLAR	0. 012uF	5%	50V
C312	1-124-499-11	ELECT, NONPOLAR	1uF	20%	50V
C313	1-163-139-00	CERAMIC CHIP	820PF	5%	50V
C320	1-123-875-11	ELECT	10uF	20%	50V
C324	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C408	1-124-791-11	ELECT	1uF	20%	100V
C413	1-124-513-11	ELECT	47uF	20%	50V
C497	1-163-031-11	CERAMIC CHIP	0. 01uF		50V
C501	1-126-101-11	ELECT	100uF	20%	16V
C502	1-164-232-11	CERAMIC CHIP	0. 01uF		50V
C503	1-130-487-00	MYLAR	0. 022uF	5%	50V
C504	1-130-485-00	MYLAR	0. 015uF	5%	50V
C505	1-124-791-11	ELECT	1uF	20%	100V
C506	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C507	1-124-791-11	ELECT	1uF	20%	100V
C508	1-126-163-11	ELECT	4. 7uF	20%	50V
C510	1-126-803-11	ELECT	47uF	20%	50V
C551	1-126-101-11	ELECT	100uF	20%	16V
C552	1-131-347-00	TANTALUM	1uF	10%	35V
C553	1-124-513-11	ELECT	47uF	20%	50V
C554	1-124-122-11	ELECT	100uF	20%	50V
C557	1-123-381-00	ELECT	2. 2uF	20%	100V
C558	1-126-376-11	ELECT	470uF	20%	25V
C561	1-130-495-00	MYLAR	0. 1uF	5%	50V
C562	1-130-483-00	MYLAR	0. 01uF	5%	50V
C571	1-130-495-00	MYLAR	0. 1uF	5%	50V
C572	1-130-495-00	MYLAR	0. 1uF	5%	50V
C801	1-102-228-00	CERAMIC	470PF	10%	500V
C802	1-102-244-00	CERAMIC	220PF	10%	500V

A

Ref. No.	Part No.	Description			Remark
C803	1-102-030-00	CERAMIC	330PF	10%	500V
⚠C804	1-136-070-00	FILM	0.005uF	3%	2KV
C806	1-126-355-11	ELECT	33uF	20%	160V
C807	1-102-228-00	CERAMIC	470PF	10%	500V
C808	1-124-920-11	ELECT	330uF	20%	50V
C809	1-124-808-51	ELECT	10uF	20%	200V
C810	1-126-803-11	ELECT	47uF	20%	50V
C811	1-136-105-00	FILM	0.33uF	5%	200V
C812	1-101-821-00	CERAMIC	0.0022uF		500V
⚠C813	1-162-115-00	CERAMIC	330PF	10%	2KV
C815	1-136-165-00	FILM	0.1uF	5%	50V
C820	1-106-367-00	MYLAR	0.01uF	5%	200V
C821	1-106-367-00	MYLAR	0.01uF	5%	200V
C822	1-126-376-11	ELECT	470uF	20%	25V
C823	1-126-163-11	ELECT	4.7uF	20%	50V
C824	1-126-101-11	ELECT	100uF	20%	16V
C825	1-126-101-11	ELECT	100uF	20%	16V
C850	1-102-228-00	CERAMIC	470PF	10%	500V
C853	1-126-376-11	ELECT	470uF	20%	25V
C854	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C855	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C856	1-124-513-11	ELECT	47uF	20%	50V
C980	1-137-475-61	FILM	2.2uF	10%	250V
C981	1-126-101-11	ELECT	100uF	20%	16V
C982	1-126-101-11	ELECT	100uF	20%	16V

< FILTER >

CF301	1-236-547-11	TRAP, LC
CF501	1-577-661-11	VIBRATOR, CERAMIC (15.734kHz)

< DIODE >

D501	8-719-109-88	DIODE	RD5.6ES-B1
D504	8-719-109-93	DIODE	RD6.2ES-B2
D551	8-719-200-02	DIODE	10E2
D571	8-719-912-51	DIODE	ESAC25-04C
D572	8-719-912-51	DIODE	ESAC25-04C
D573	8-719-931-35	DIODE	EQB01-35
D574	8-719-911-19	DIODE	1SS119
D575	8-719-911-19	DIODE	1SS119
D576	8-719-400-18	DIODE	MA152WK
D803	8-719-300-33	DIODE	RU-3AM
D804	8-719-300-33	DIODE	RU-3AM
⚠D806	8-719-302-43	DIODE	EL-1Z
D809	8-719-200-02	DIODE	10E2
D810	8-719-200-02	DIODE	10E2
D811	8-719-300-33	DIODE	RU-3AM
D812	8-719-110-31	DIODE	RD12ES-B2
D980	8-719-400-18	DIODE	MA152WK
D982	8-719-000-28	DIODE	CR02AM-8
D984	8-719-105-91	DIODE	RD5.6M-B2
D985	8-719-400-18	DIODE	MA152WK

< EYELET >

EY1	4-341-752-01	EYELET
EY2	4-341-752-01	EYELET
EY3-12	4-341-751-01	EYELET
EY13	4-341-752-01	EYELET
EY14	4-341-752-01	EYELET
EY15	4-341-751-01	EYELET
EY16	4-341-751-01	EYELET
EY17	4-341-752-01	EYELET
EY18-24	4-341-751-01	EYELET
EY25-40	4-341-752-01	EYELET

< FUSE >

⚠F591	1-532-748-11	FUSE, GLASS TUBE	6.3A 125V

< IC >

IC001	8-759-112-06	IC	uPC78N05H
IC301	8-759-420-48	IC	AN5160NK
IC402	8-759-100-96	IC	uPC4558G2
IC551	8-759-822-02	IC	LA7837
IC802	8-759-708-05	IC	NJM78L05A
IC851	8-759-701-59	IC	NJM78M09FA

< JUMPER RESISTOR >

JR1-4	1-216-296-00	METAL CHIP	0	5%	1/8W
JR11-14	1-216-296-00	METAL CHIP	0	5%	1/8W
JR15	1-216-295-00	METAL CHIP	0	5%	1/10W
JR16-24	1-216-296-00	METAL CHIP	0	5%	1/8W
JR25	1-216-295-00	METAL CHIP	0	5%	1/10W
JR26	1-216-295-00	METAL CHIP	0	5%	1/10W
JR27-29	1-216-296-00	METAL CHIP	0	5%	1/8W

< COIL >

L208	1-408-421-00	INDUCTOR 100uH
L501	1-408-421-00	INDUCTOR 100uH
⚠L571	1-424-648-11	TRANSFORMER, LINE FILTER (LFT)
L801	1-407-365-00	COIL, CHOKE
L804	1-406-914-11	COIL (WITH CORE)
⚠L805	1-460-026-11	COIL, HORIZONTAL LINEARITY
⚠L806	1-421-421-00	COIL, CHOKE

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

A

Ref.No.	Part No.	Description			Remark
L807	1-410-671-31	INDUCTOR	47uH		
		< TRANSISTOR >			
Q252	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q254	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q302	8-729-216-22	TRANSISTOR	2SA1162-G		
Q571	8-729-206-05	TRANSISTOR	2SA1329-O		
Q572	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q573	8-729-140-97	TRANSISTOR	2SB734-34		
Q575	8-729-901-01	TRANSISTOR	DTC144EK		
Q801	8-729-119-80	TRANSISTOR	2SC2688-LK		
Q802	8-729-809-41	TRANSISTOR	2SD1876-CA		
Q803	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q804	8-729-831-33	TRANSISTOR	2SD313HP		
Q805	8-729-820-50	TRANSISTOR	2SA1016KFG		
Q980	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
		< RESISTOR >			
R001	1-216-359-00	METAL OXIDE	6.8	5% 1W F	
R002	1-216-359-00	METAL OXIDE	6.8	5% 1W F	
R126	1-216-065-00	METAL CHIP	4.7K	5% 1/10W	
R127	1-216-067-00	METAL CHIP	5.6K	5% 1/10W	
R128	1-249-434-11	CARBON	27K	5% 1/4W	
R129	1-216-073-00	METAL CHIP	10K	5% 1/10W	
R130	1-216-081-00	METAL CHIP	22K	5% 1/10W	
R131	1-216-107-00	METAL CHIP	270K	5% 1/10W	
R132	1-216-222-00	METAL GLAZE	10K	5% 1/8W	
R133	1-249-439-11	CARBON	68K	5% 1/4W	
R134	1-247-722-11	CARBON	5.6K	5% 1/4W	
R135	1-249-438-11	CARBON	56K	5% 1/4W	
R136	1-249-437-11	CARBON	47K	5% 1/4W	
R171	1-216-073-00	METAL CHIP	10K	5% 1/10W	
R172	1-216-093-00	METAL CHIP	68K	5% 1/10W	
R201	1-216-022-00	METAL GLAZE	75	5% 1/10W	
R265	1-216-053-00	METAL CHIP	1.5K	5% 1/10W	
R266	1-216-061-00	METAL CHIP	3.3K	5% 1/10W	
R267	1-216-053-00	METAL CHIP	1.5K	5% 1/10W	
R268	1-216-071-00	METAL CHIP	8.2K	5% 1/10W	
R269	1-216-061-00	METAL CHIP	3.3K	5% 1/10W	
R299	1-216-049-00	METAL CHIP	1K	5% 1/10W	
R305	1-216-033-00	METAL CHIP	220	5% 1/10W	
R306	1-216-115-00	METAL CHIP	560K	5% 1/10W	
R307	1-216-049-00	METAL CHIP	1K	5% 1/10W	
R308	1-216-043-00	METAL CHIP	560	5% 1/10W	
R310	1-216-049-00	METAL CHIP	1K	5% 1/10W	
R311	1-216-198-00	METAL GLAZE	1K	5% 1/8W	
R312	1-216-198-00	METAL GLAZE	1K	5% 1/8W	
R313	1-216-182-00	METAL GLAZE	220	5% 1/8W	
R314	1-216-033-00	METAL CHIP	220	5% 1/10W	

Ref.No.	Part No.	Description			Remark
R315	1-216-033-00	METAL CHIP	220	5% 1/10W	
R316	1-216-025-00	METAL CHIP	100	5% 1/10W	
R317	1-216-049-00	METAL CHIP	1K	5% 1/10W	
R318	1-216-099-00	METAL CHIP	120K	5% 1/10W	
R319	1-216-121-00	METAL CHIP	1M	5% 1/10W	
R320	1-216-049-00	METAL CHIP	1K	5% 1/10W	
R321	1-216-105-00	METAL CHIP	220K	5% 1/10W	
R322	1-216-117-00	METAL CHIP	680K	5% 1/10W	
R324	1-216-113-00	METAL CHIP	470K	5% 1/10W	
R331	1-216-428-00	METAL OXIDE	180	5% 1W F	
R335	1-216-065-00	METAL CHIP	4.7K	5% 1/10W	
R336	1-216-093-00	METAL CHIP	68K	5% 1/10W	
R369	1-216-043-00	METAL CHIP	560	5% 1/10W	
R421	1-216-073-00	METAL CHIP	10K	5% 1/10W	
R461	1-216-073-00	METAL CHIP	10K	5% 1/10W	
R463	1-216-073-00	METAL CHIP	10K	5% 1/10W	
R501	1-249-459-11	CARBON	12K	5% 1/4W F	
R503	1-216-053-00	METAL CHIP	1.5K	5% 1/10W	
R504	1-249-417-11	CARBON	1K	5% 1/4W	
R505	1-216-049-00	METAL CHIP	1K	5% 1/10W	
R506	1-216-079-00	METAL CHIP	18K	5% 1/10W	
R507	1-216-037-00	METAL CHIP	330	5% 1/10W	
R509	1-216-079-00	METAL CHIP	18K	5% 1/10W	
R510	1-216-037-00	METAL CHIP	330	5% 1/10W	
R551	1-216-081-00	METAL CHIP	22K	5% 1/10W	
R553	1-216-373-11	METAL OXIDE	2.2	5% 2W F	
R554	1-216-085-00	METAL CHIP	33K	5% 1/10W	
R556	1-216-077-00	METAL CHIP	15K	5% 1/10W	
R557	1-216-049-00	METAL CHIP	1K	5% 1/10W	
R558	1-216-085-00	METAL CHIP	33K	5% 1/10W	
R559	1-215-889-00	METAL OXIDE	330	5% 2W F	
R561	1-249-417-11	CARBON	1K	5% 1/4W	
R563	1-247-726-11	CARBON	33K	5% 1/4W	
R566	1-249-385-11	CARBON	2.2	5% 1/6W F	
R567	1-216-093-00	METAL CHIP	68K	5% 1/10W	
R571	1-216-069-00	METAL CHIP	6.8K	5% 1/10W	
R574	1-216-033-00	METAL CHIP	220	5% 1/10W	
R575	1-216-081-00	METAL CHIP	22K	5% 1/10W	
R576	1-216-065-00	METAL CHIP	4.7K	5% 1/10W	
R577	1-249-426-11	CARBON	5.6K	5% 1/4W	
R578	1-216-057-00	METAL GLAZE	2.2K	5% 1/10W	
R579	1-216-073-00	METAL CHIP	10K	5% 1/10W	
R580	1-216-295-00	METAL GLAZE	0	5% 1/10W	
R801	1-247-706-11	CARBON	330	5% 1/4W	
R805	1-216-077-00	METAL CHIP	15K	5% 1/10W	
R806	1-249-389-11	CARBON	4.7	5% 1/4W F	
R807	1-214-761-00	METAL	22K	1% 1/4W	
R808	1-215-446-00	METAL	11K	1% 1/6W	
R809	1-249-383-11	CARBON	1.5	5% 1/6W F	

A C

Ref.No.	Part No.	Description				Remark
R810	1-216-425-11	METAL OXIDE	56	5%	1W	F
R811	1-249-426-11	CARBON	5.6K	5%	1/4W	F
R812	1-215-475-00	METAL	180K	1%	1/6W	
R815	1-247-712-11	CARBON	820	5%	1/4W	F
R818	1-207-615-00	WIREWOUND	0.33	10%	2W	F
R819	1-215-882-00	METAL OXIDE	22	5%	2W	F
R820	1-215-895-11	METAL OXIDE	3.3K	5%	2W	F
⧓⚠R822		METAL		1%	1/4W	
R823	1-249-377-11	CARBON	0.47	5%	1/4W	F
R824	1-249-377-11	CARBON	0.47	5%	1/4W	F
R831	1-215-888-00	METAL OXIDE	220	5%	2W	F
R832	1-216-426-11	METAL OXIDE	82	5%	1W	F
R834	1-247-717-11	CARBON	2.2K	5%	1/4W	
R835	1-249-391-11	CARBON	6.8	5%	1/4W	F
R836	1-249-414-11	CARBON	560	5%	1/4W	
R838	1-260-064-11	CARBON	1	5%	1/2W	
R839	1-247-713-11	CARBON	1K	5%	1/4W	F
R842	1-247-887-00	CARBON	220K	5%	1/4W	
R850	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R981	1-247-895-00	CARBON	470K	5%	1/4W	
R983	1-249-417-11	CARBON	1K	5%	1/4W	
R984	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R985	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R986	1-216-091-00	METAL CHIP	56K	5%	1/10W	
R988	1-249-403-11	CARBON	68	5%	1/4W	

< VARIABLE RESISTOR >

RV101	1-241-122-11	RES, ADJ, CARBON 22K
RV102	1-241-123-11	RES, ADJ, CARBON 47K
RV103	1-241-122-11	RES, ADJ, CARBON 22K
RV104	1-241-123-11	RES, ADJ, CARBON 47K
RV301	1-241-628-11	RES, ADJ, CARBON 2.2K
RV551	1-241-123-11	RES, ADJ, CARBON 47K

< RELAY >

RY980	1-515-516-00	RELAY

< SWITCH >

S551	1-554-186-00	SWITCH, LEVER
S801	1-554-186-00	SWITCH, LEVER

< TRANSFORMER >

⚠T801	1-437-195-11	TRANSFORMER, HORIZONTAL DRIVE
⚠T802	1-439-476-11	TRANSFORMER ASSY, FLYBACK

< CRYSTAL >

X301	1-567-505-11	OSCILLATOR, CRYSTAL (3.579545MHz)

****

Ref.No.	Part No.	Description				Remark
		C BOARD (included in A board, complete)				
		*******				
		< CONNECTOR >				
* C-1	1-506-108-41	PIN, CONNECTOR (TERMINAL PIN)				
* C-2	1-564-510-11	PLUG, CONNECTOR 7P				
* C-3	1-564-509-11	PLUG, CONNECTOR 6P				
		< CAPACITOR >				
C701	1-162-116-00	CERAMIC	680PF	10%	2KV	
C702	1-102-050-00	CERAMIC	0.01uF	99%	500V	
C703	1-162-114-00	CERAMIC	0.0047uF		2KV	
C705	1-102-110-00	CERAMIC	220PF	10%	50V	
C706	1-102-110-00	CERAMIC	220PF	10%	50V	
C707	1-102-110-00	CERAMIC	220PF	10%	50V	
		< CRT SOCKET >				
J701	1-526-958-21	SOCKET, CRT				
		< COIL >				
L704	1-408-420-00	INDUCTOR	82uH			
		< TRANSISTOR >				
Q701-703	8-729-326-11	TRANSISTOR	2SC2611			
		< RESISTOR >				
R701	1-215-899-11	METAL OXIDE	15K	5%	2W	F
R702	1-202-822-00	SOLID	2.2K	10%	1/2W	
R704	1-249-409-11	CARBON	220	5%	1/4W	F
R705	1-247-715-11	CARBON	1.5K	5%	1/4W	
R706	1-249-409-11	CARBON	220	5%	1/4W	
R707	1-202-822-00	SOLID	2.2K	10%	1/2W	
R708	1-249-419-11	CARBON	1.5K	5%	1/4W	
R712	1-215-899-11	METAL OXIDE	15K	5%	2W	F
R713	1-202-822-00	SOLID	2.2K	10%	1/2W	
R714	1-249-413-11	CARBON	470	5%	1/4W	
R715	1-249-418-11	CARBON	1.2K	5%	1/4W	
R717	1-202-842-11	SOLID	220K	10%	1/2W	
R718	1-202-719-00	SOLID	1M	10%	1/2W	
R719	1-202-838-00	SOLID	100K	10%	1/2W	
R720	1-215-899-11	METAL OXIDE	15K	5%	2W	F
R721	1-247-807-31	CARBON	100	5%	1/4W	
R722	1-247-700-11	CARBON	100	5%	1/4W	
R723	1-247-807-31	CARBON	100	5%	1/4W	F
R724	1-247-885-00	CARBON	180K	5%	1/4W	

• The components identified by ⧓ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

C G

Ref. No.	Part No.	Description			Remark
		< VARIABLE RESISTOR >			
RV701	1-238-015-11	RES, ADJ, CARBON 4.7K			
RV702	1-238-011-11	RES, ADJ, CARBON 470			
RV703	1-238-015-11	RES, ADJ, CARBON 4.7K			
RV704	1-238-011-11	RES, ADJ, CARBON 470			
RV705	1-238-015-11	RES, ADJ, CARBON 4.7K			
RV706	1-241-631-11	RES, ADJ, CARBON 22K			
**********					
*	A-3222-648-A	G BOARD, COMPLETE			
		**********			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
		< CAPACITOR >			
C615	1-126-777-11	ELECT	2200uF	20%	35V
C616-619					
	1-136-153-00	FILM	0.01uF	5%	50V
C620-623					
	1-136-168-00	FILM	0.18uF	5%	50V
C624	1-136-153-00	FILM	0.01uF	5%	50V
C625	1-136-153-00	FILM	0.01uF	5%	50V
C626	1-137-572-11	FILM	0.056uF	5%	400V
C627	1-137-552-11	FILM	0.23uF	5%	42V
C628	1-124-126-00	ELECT	47uF	20%	25V
C629	1-126-516-11	ELECT	120uF	20%	16V
C631	1-126-376-11	ELECT	470uF	20%	25V
C632	1-126-600-11	ELECT	100uF	20%	160V
C633	1-124-122-11	ELECT	100uF	20%	50V
C634	1-101-821-00	CERAMIC	0.0022uF		500V
C635	1-136-167-00	FILM	0.15uF	5%	50V
C636	1-102-038-00	CERAMIC	0.001uF		
C637	1-126-335-11	ELECT	220uF	20%	10V
C640	1-136-153-00	FILM	0.01uF	5%	50V
C661	1-164-644-11	CERAMIC	330PF	10%	500V
C670	1-124-915-11	ELECT	10uF	20%	16V
		< DIODE >			
D615	8-719-911-19	DIODE 1SS119			
D616-623					
	8-719-510-48	DIODE D1N20R			
D628	8-719-510-26	DIODE D1NL20			
D629	8-719-110-46	DIODE RD16ES-B3			
D661	8-719-510-13	DIODE D10SC4MR			
D662	8-719-510-12	DIODE D10SC4M			
D665	8-719-025-11	DIODE D8LC20UR			
D666	8-719-025-10	DIODE D8LC20U			
D671	8-719-110-46	DIODE RD16ES-B3			
D672	8-719-510-26	DIODE D1NL20			
D674	8-719-911-19	DIODE 1SS119			
		< EYELET >			
EY601-633					
	4-341-751-01	EYELET			
		< FERRITE BEAD >			
FB601-608					
	1-412-911-11	INDUCTOR, FERRITE BEAD			
		< CONNECTOR >			
* G-1	1-564-522-11	PLUG, CONNECTOR 7P			
* G-2	1-564-521-11	PLUG, CONNECTOR 6P			
		< IC >			
IC603	8-759-632-07	IC M5237L			
IC604	1-809-703-11	IC POWER, MODULE (DM-46)			
IC605	1-809-704-11	IC POWER, MODULE (DM-45)			
		< FILTER >			
L602	1-423-850-11	TRANSFORMER, LINE FILTER			
		< TRANSISTOR >			
Q601	8-729-015-52	TRANSISTOR 2SB1184-Q			
Q602	8-729-122-12	TRANSISTOR 2SA1221-L			
Q603-606					
	8-729-011-74	TRANSISTOR 2SC4876			
Q608	8-729-920-92	TRANSISTOR 2SD2096-EF			
Q611	8-729-920-92	TRANSISTOR 2SD2096-EF			
Q673	8-729-900-80	TRANSISTOR DTC114ES			
		< RESISTOR >			
R601	1-216-354-11	METAL OXIDE	2.7	5%	1W F
R602	1-249-421-11	CARBON	2.2K	5%	1/4W
R603	1-249-431-11	CARBON	15K	5%	1/4W
R604	1-247-844-11	CARBON	3.6K	5%	1/4W
R605	1-249-423-11	CARBON	3.3K	5%	1/4W
R606	1-249-409-11	CARBON	220	5%	1/4W
R607	1-216-435-11	METAL OXIDE	2.7K	5%	1W F
R610	1-249-429-11	CARBON	10K	5%	1/4W
R611	1-249-429-11	CARBON	10K	5%	1/4W
R613	1-216-341-11	METAL OXIDE	0.22	5%	1W F
R614	1-216-341-11	METAL OXIDE	0.22	5%	1W F
R615	1-216-341-11	METAL OXIDE	0.22	5%	1W F
R616	1-216-341-11	METAL OXIDE	0.22	5%	1W F
⋈R617		CARBON		5%	1/4W
R618	1-216-347-11	METAL OXIDE	0.68	5%	1W F

• The components identified by ⋈ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

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Ref. No.	Part No.	Description				Remark
R619	1-216-354-11	METAL OXIDE	2.7	5%	1W	F
R620	1-216-354-11	METAL OXIDE	2.7	5%	1W	F
R626	1-216-422-11	METAL OXIDE	18	5%	1W	F
R629	1-249-413-11	CARBON	470	5%	1/4W	F
R630	1-247-807-31	CARBON	100	5%	1/4W	F
R631	1-247-807-31	CARBON	100	5%	1/4W	F
R633	1-218-268-11	METAL	0.47	5%	1/2W	
R634	1-218-268-11	METAL	0.47	5%	1/2W	
R636	1-247-807-31	CARBON	100	5%	1/4W	F
R638	1-249-377-11	CARBON	0.47	5%	1/4W	F
R639	1-249-422-11	CARBON	2.7K	5%	1/4W	
R661	1-215-857-11	METAL OXIDE	10	5%	1W	F
R671	1-249-424-11	CARBON	3.9K	5%	1/4W	
R672	1-249-420-11	CARBON	1.8K	5%	1/4W	
R677	1-249-429-11	CARBON	10K	5%	1/4W	
R678	1-249-429-11	CARBON	10K	5%	1/4W	
R680	1-249-424-11	CARBON	3.9K	5%	1/4W	
		< RELAY >				
RY602	1-515-888-11	RELAY				
		< TRANSFORMER >				
⚠T604	1-450-862-11	TRANSFORMER, CONVERTER(PRT1-B)				
⚠T606	1-450-861-11	TRANSFORMER, CONVERTER DRIVE				
		< VARISTOR >				
VDR602	1-809-678-11	VARISTOR				

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MISCELLANEOUS
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3	1-452-512-11	MAGNET
⚠5	1-426-462-11	COIL, DEMAGNETIZATION
7	1-751-622-11	CORD, CONNECTION
⚠9	1-451-354-11	DEFLECTION YOKE (Y11SLA)
⚠V901	8-735-821-01	CRT SD-217 (A27KGC10X)

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HARDWARE LIST
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#1	7-682-547-09	SCREW +BVTT	3X6	(S)
#2	7-682-548-04	SCREW +BVTT	3X6	(S)

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

9-959-037-11

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Mobile Electronics Group

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